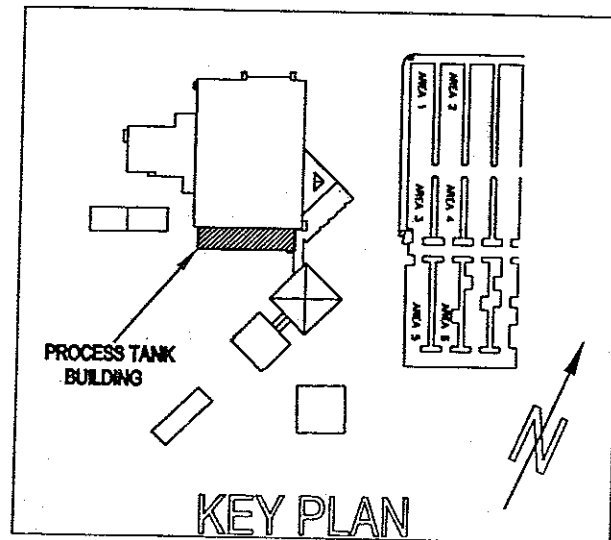
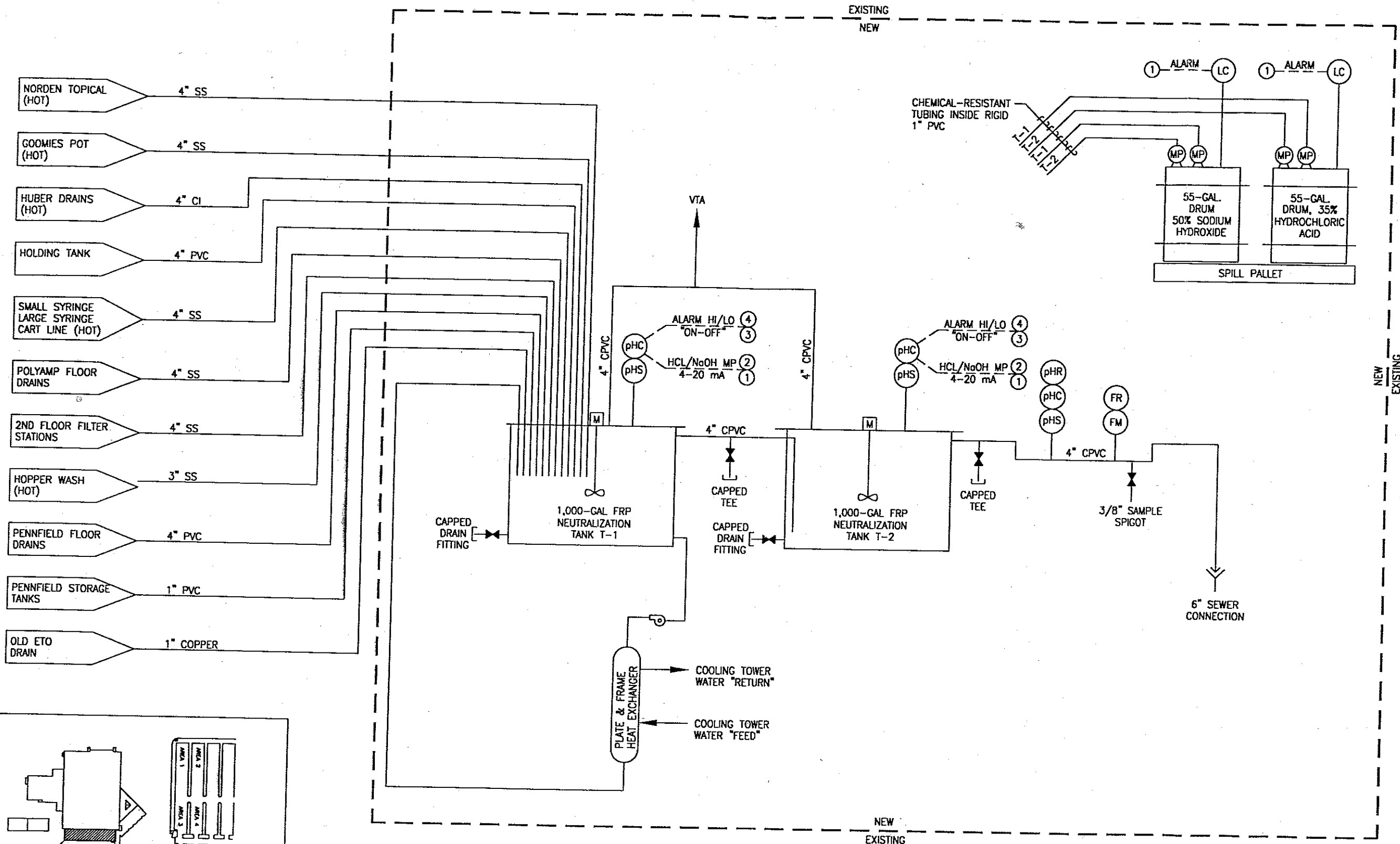


**Attachment 2 –Process Flow Diagram for Outfall 001 Parenteral (Stamped by PE)**



REVISION					
REV	DESCRIPTION	DRW	CHK	ENG	DATE
01	ORIGINAL ISSUE	JRV	SEG	MKR	3/20/01



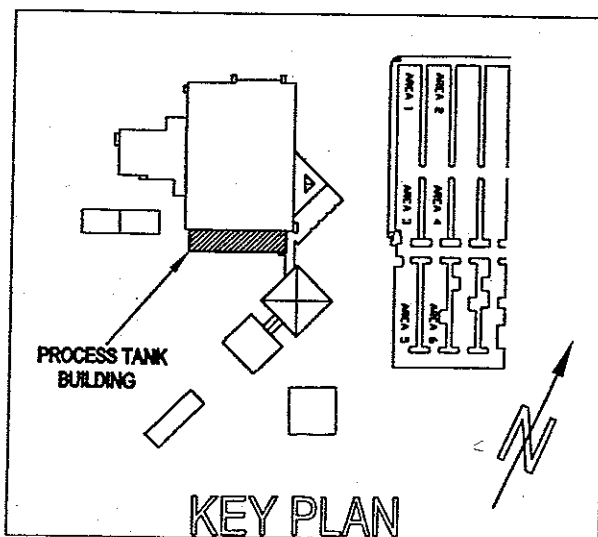
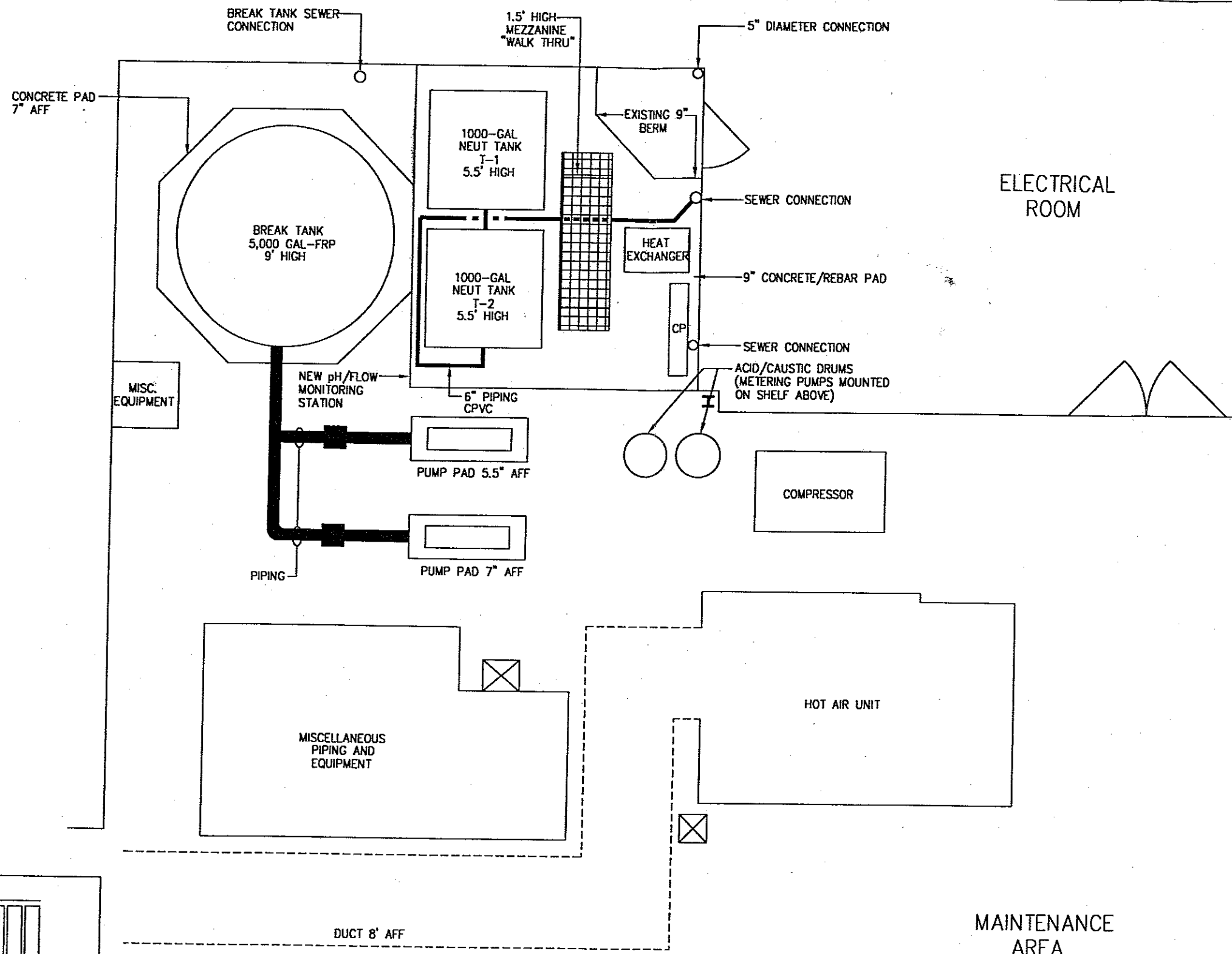
PROJECT NUMBER  
99-070D  
SCALE NONE

CLIENT: ASTRAZENECA  
50 OTIS STREET  
WESTBOROUGH, MA  
TITLE: PROPOSED PROCESS WW TANK  
IWWT SYSTEM P&ID

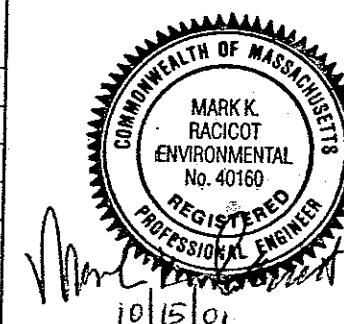
DRAWING NUMBER  
P-7  
CAD: 01-102A

75 Union Avenue, Sudbury, MA 01776

**Attachment 3 –Layout Diagram for Outfall 001 Parenteral (Stamped by PE)**



REVISION					
REV	DESCRIPTION	DRW	CHK	ENG	DATE
01	ORIGINAL ISSUE	JRV	SEG	MKR	3/20/01



<b>Capaccio</b> Environmental Engineering, Inc. 75 Union Avenue, Sudbury, MA 01776		
PROJECT NUMBER 99-070D	CLIENT: ASTRAZENECA 50 OTIS STREET WESTBOROUGH, MA	DRAWING NUMBER L-7
TITLE: PROPOSED PROCESS WW TANK IWWT SYSTEM LAYOUT		CAD: 01-102A
SCALE: 3/8"=1'-0"		

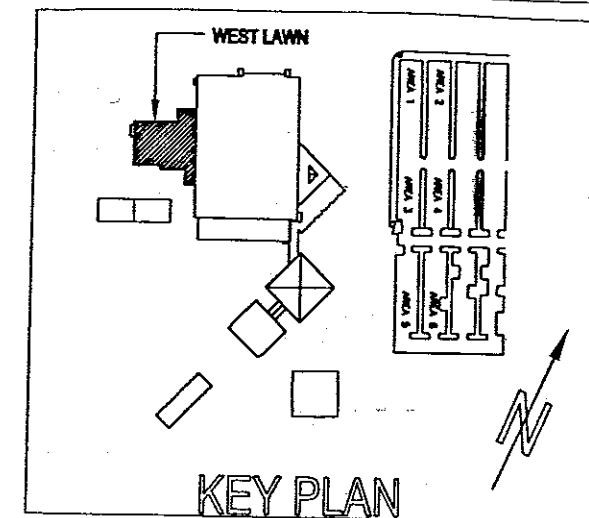
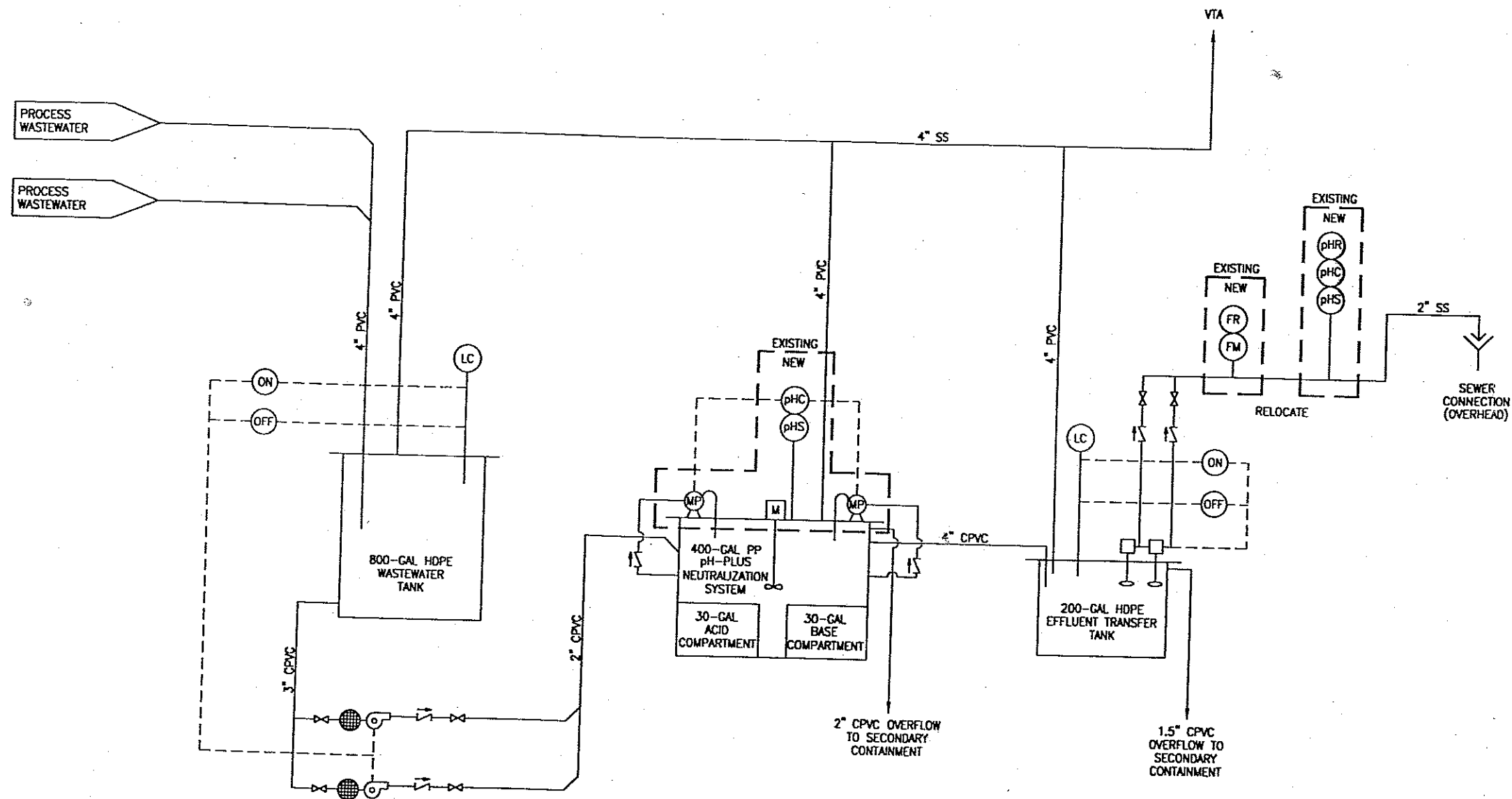
#### **Attachment 4 – Description of Treatment Process for Outfall 002 West Lawn**

##### **Outfall 002 – West Lawn Building**

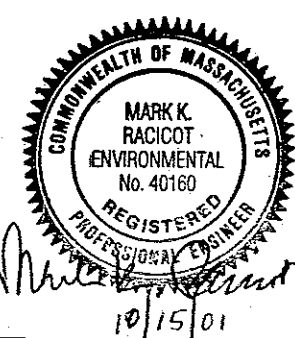
The West Lawn IWWT is located in Building 12 (West Lawn), basement mechanical space. The West Lawn IWWT is a single-stage, continuously monitored pH neutralization system equipped with an effluent lift station. Process waste streams flow by gravity into a nine hundred (900) gallon polyethylene “spill” tank where the flow is transferred by a float controlled duplex pump system. The flow is pumped into a four hundred (400) gallon polypropylene pH neutralization tank. This tank has a mechanical mixer, pH sensor, and controller that operate chemical metering pumps that supply acid or caustic. Following pH adjustment, the wastewater flows by gravity to a two hundred (200) gallon polyethylene effluent transfer tank. The effluent transfer tank has a level controlled duplex effluent pump system that pumps the effluent through a force main to the Town sewer.


The “spill” and transfer tanks have high level alarms, and the effluent tank is equipped with a pH probe with both high and low pH alarms. All pH readings and flows are continuously recorded on a dual pen circular chart recorder. In addition, the effluent monitoring systems is connected to the AstraZeneca building automation system, which is monitored 24-hours/day, 7-days/week for alarm conditions. A sampling port and flow meter connection are provided on the force main for automatic flow paced sampling. A containment system with an alarmed liquid detention system is provided for all tanks utilized at this outfall.

**Attachment 5 –Process Flow Diagram for Outfall 002 West Lawn (Stamped by PE)**



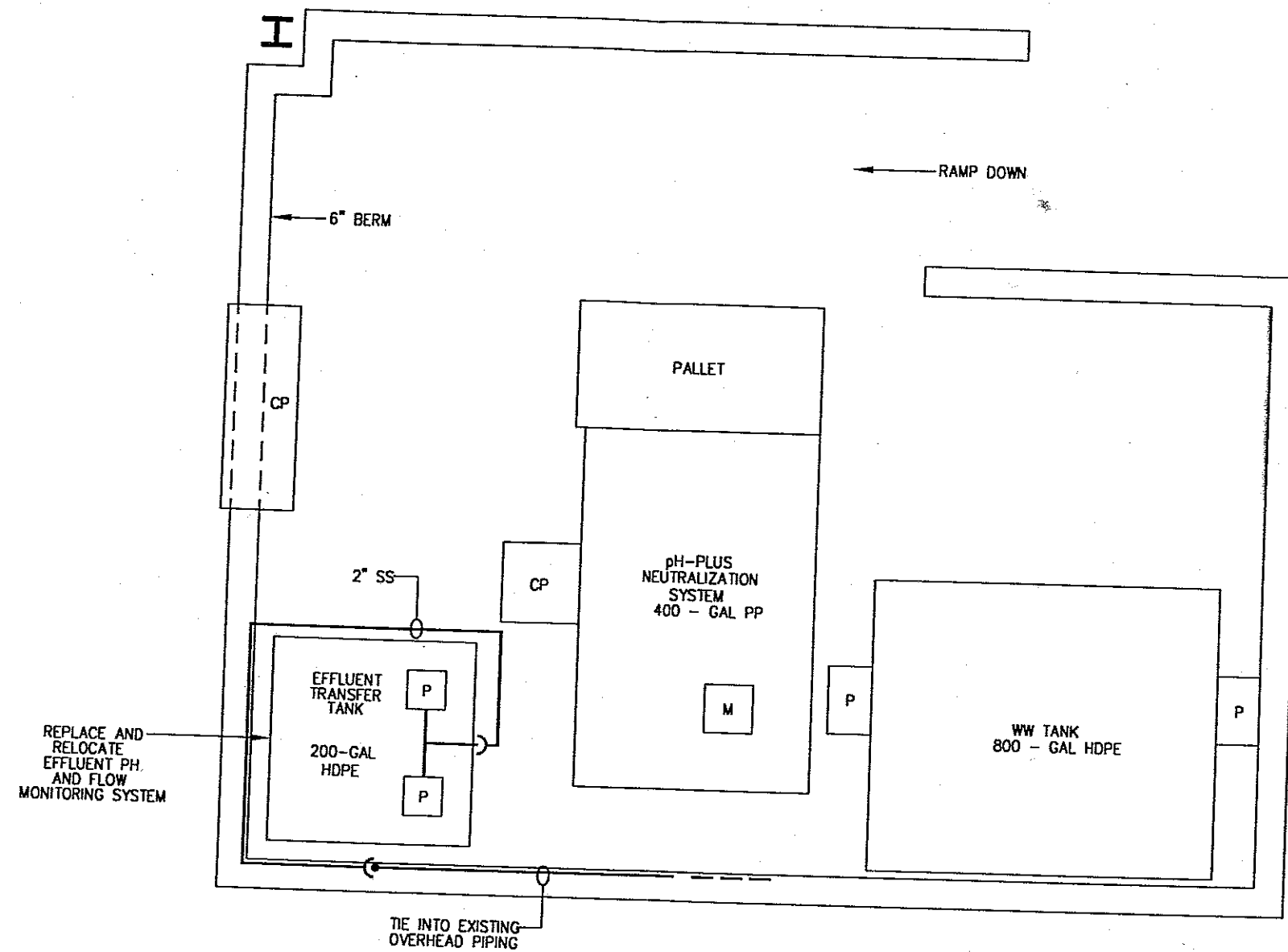
REVISION					
REV	DESCRIPTION	DRW	CHK	ENG	DATE
01	ORIGINAL ISSUE	JRV	SEG	MKR	3/20/01



 <b>Capacchio</b> Environmental Engineering, Inc. 75 Union Avenue, Sudbury, MA 01776			
PROJECT NUMBER	CLIENT:	DRAWING NUMBER	
99-070D	ASTRAZENECA 50 OTIS STREET WESTBOROUGH, MA	P-9	
TITLE:		CAD: 01-102A	
SCALE: 3/8"=1'-0"		PROPOSED WEST LAWN IWWT SYSTEM P&ID	

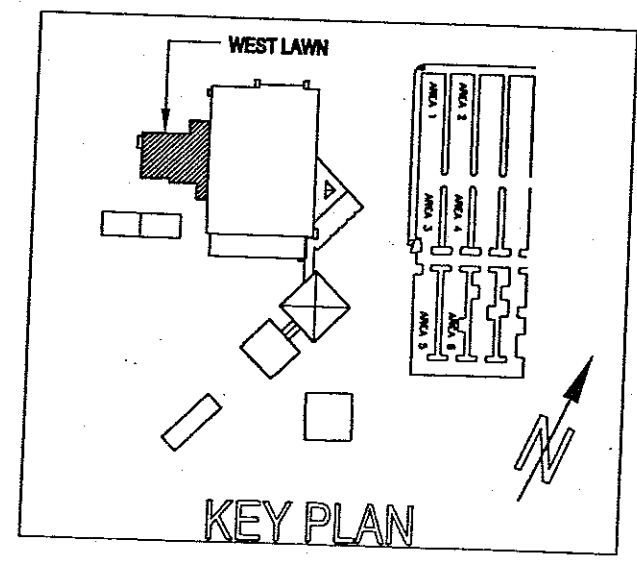
**Attachment 6 –Layout Diagram for 002 West Lawn (Stamped by PE)**



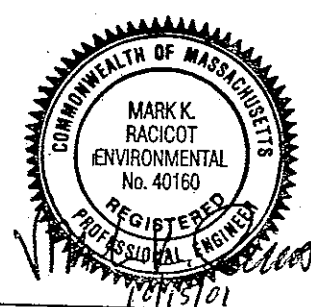


REPLACE AND  
RELOCATE  
EFFLUENT PH.  
AND FLOW  
MONITORING SYSTEM

TIE INTO EXISTING  
OVERHEAD PIPING



REVISION					
REV	DESCRIPTION	DRW	CHK	ENG	DATE
01	ORIGINAL ISSUE	JRV	SEG	MKR	3/20/01



**Capacchio**  
Environmental Engineering, Inc.

75 Union Avenue, Sudbury, MA 01776

PROJECT NUMBER 99-070D	CLIENT: ASTRAZENECA 50 OTIS STREET WESTBOROUGH, MA	DRAWING NUMBER L-9
TITLE: PROPOSED WEST LAWN IWWT SYSTEM LAYOUT		DATE: 03/20/01

SCALE: 3/8"=1'-0"